U.S. Serial No.: 09/482,235
Docket No. 26068-05E

Examiner: Brenda Coleman
Art Unit: 1624

LISTING OF CLAIMS

Claims 1-2: (Canceled)

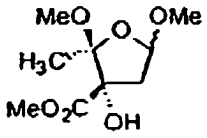
3. (Previously presented) A process according to claim 26 wherein said preparation is carried out in the presence of a Bronstead acid or a Lewis acid.

4. (Original) A process according to claim 3 wherein the acid is selected from the group consisting of camphor sulfonic acid, *para*-toluene sulfonic acid, and $BF_3 \bullet Et_2O$.

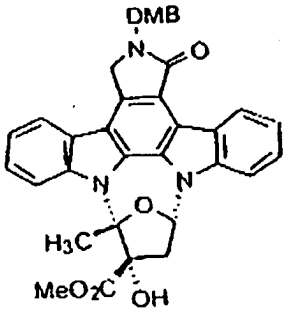
5. (Original) A process according to claim 4 wherein camphor sulfonic acid is used as a catalyst and dichloroethane is used as a solvent.

Claims 6-7: (Cancelled)

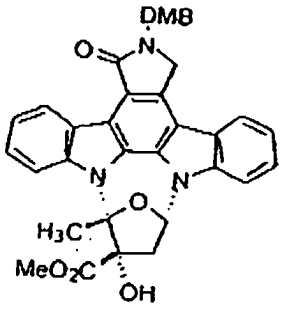
8. (Previously presented) A process according to claim 26 wherein a furanose of the formula



is reacted with DMB-protected K252c to give two products of the formulae



and



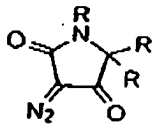
9. (Previously presented) A product prepared according to the process of claim 26.

10. (Previously presented) A product prepared according to the process of claim 3.

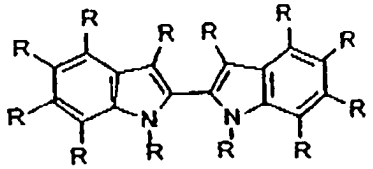
11. (Previously presented) A process according to claim 26 wherein the furanosylated indolocarbazole prepared is K252a.

12. (Canceled).

13. (Previously presented) A process according to claim 26 wherein the indolocarbazole is prepared by reacting a diazo compound having the ring structure



with a biindole having the ring structure



14. (Original) A process according to claim 13 wherein the reaction is carried out in the presence of a transition metal catalyst in a solvent capable of solvating the reactants.

15. (Original) A process according to claim 13 wherein the coupling reaction is carried out in the presence of a $Rh_2(OAc)_4$ catalyst.

16. (Previously presented) A process according to claim 13 wherein the diazo compound is a diazolactam and the biindole is a 2,2'-biindole.

Claims 17-18: (Canceled)

19. (Previously presented) A process according to claim 27 wherein the furanosylated indolocarbazole prepared is K252a.

20. (Previously presented) A product produced by the process of claim 27.

21. (Previously presented) A process according to claim 26 wherein the indolocarbazole is reacted with an acetal under conditions that promote acetal exchange.

22. (Previously presented) A process according to claim 3 wherein the preparation is carried out in the presence of a Lewis acid.

23. (Previously presented) A process according to claim 27 wherein the biindole is a 2,2' – biindole.

24. (Previously presented) A process according to claim 27 wherein a Lewis acid is employed.

25. (Canceled)

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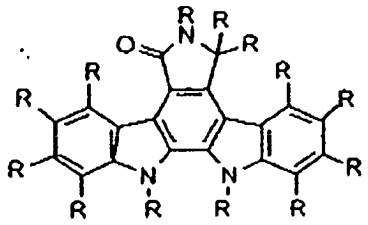
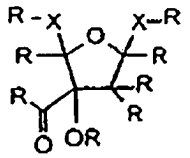
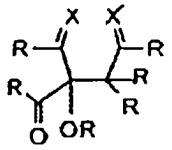
Claim 26. (Previously presented) A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure



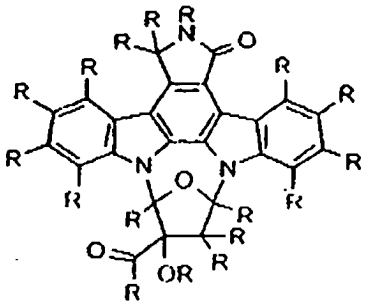
with an acetal having the structure



or



wherein X is O, under conditions that promote acetal exchange or formation to produce a furanosylated product having the ring structure



wherein R is selected from the group consisting of:

hydrogen;

CH3;

OCH3;

3,4-DMB;

PMB;

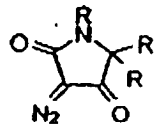
Bn;

t-Bu;

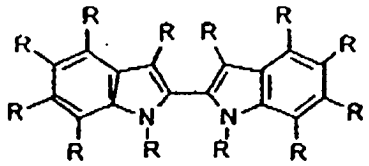
saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl, and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.

Claim 27. (Previously presented) A process for the preparation of furanosylated indolocarbazoles comprising:

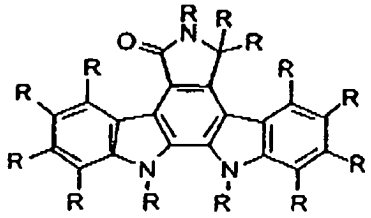
reacting a diazo compound having the ring structure



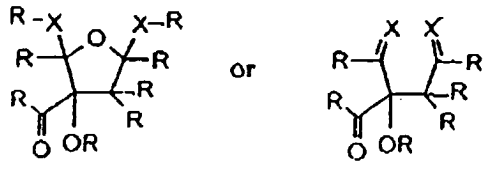
with a biindole having the ring structure



in the presence of a transition metal catalyst in a solvent capable of solvating the reactants, to produce an indolocarbazole having the ring structure

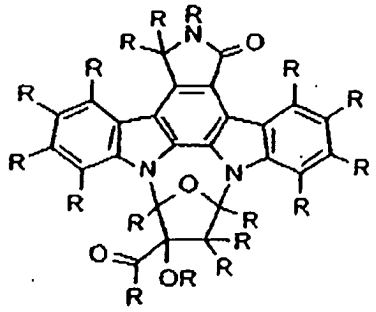


and then reacting the indolocarbazole with an acetal having the structure



wherein X is O;

to produce a furanosylated product having the ring structure



wherein R is selected from the group consisting of:

hydrogen;

CH3;

OCH3;

3,4-DMB;

PMB;

Bn;

t-Bu;

saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl, and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.